

WO 2005/083096

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<150> 60/547,256

<151> 2004-02-23

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<170> PatentIn version 3.3

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<210> 10
 <211> 1999
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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gaggttttac cgtcaatgga aatgctatta ctgtcataaa acgtaatcaa gttaccaat	240
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cctacaatag caaacgtata tgagtcggaa atgggaaagc catcctcggt ataagtggcg	360
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1999

<210> 11
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 tttaaacagc agaacttaac tctctcatca cgctgtttcc gctgaatttt ctcaaaatat 1920
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<210> 12
 <211> 2000
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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caaatctcga caaagtaaaa gctcatagag atagtattat attgatataa aaaaagtata 1920
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<210> 13
<211> 2001
<212> DNA
<213> Saccharomyces cerevisiae

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<210> 14
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 aacagtagta tactgtgtat ataatagata tggaacgtta tattcacctc cgatgtgtgt 1920
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<210> 15
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 16
 <211> 2000
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 17
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 18
 <211> 1999
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 19
 <211> 1999
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 20

<211> 2009

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 20

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<210> 21
 <211> 1943
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 22
 <211> 2001
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 <213> *Saccharomyces cerevisiae*

<400> 23
 tcctaaggac atattccgtt cgtacttgag ttattggatc tatgaaatcg ctcgctatac 60
 accagtcatg attttgtccc tggtaatagg ggttttgggt ttattaatta tattttttta 120
 tgacaacgaa gcttgtgttt tcaattctgc aatatttgct ttactttctc ttgtagggtt 180
 gttaataata ttaagtgatg gtaatccaaa gctagtcagt cgtcgaaatt ttaggaccga 240
 gcttttagtg gatgtcatca cacgtaaacc ggcggtagaa gggaaagaat ggaggatcat 300
 cacatacaac atgaaccaat atttgtttta tcatgggcaa tggcatactc cgtattactt 360
 ttacagcgat gaggattgct accgttattt tctacgcctt gttgaggag taacccccaa 420
 gaagcaaaca gccacgtcaa ttggcaattc tccggtcacc gctaagcctg aagatgccat 480
 cgagtcagct tctcctagtt ccagactgaa ttatcaaaac tttttgctca aggcagcgga 540
 gatcgaacga caagctcagg aaaattactg gcgaaggcgg catccaata tcgatgcgct 600
 tcttaaaaag acggaatagc ttagagacac taccatacgt aaagcgaaca taaactagag 660
 tatgatatat aatcagcact aactggccgg aaaacggccg aaggaagcct cgaaaagtcg 720
 attcgtgttg gaccatttg ctgaacaaag tggttcattg cctacctatt atggtagtag 780
 tcgtgataat cgtgtgggtg gttttgtcaa cggtgcattt gcattttcat gacaataaac 840
 cttgcgtttt cgttctcggg atattacttt ccttcactt ctttcgcctc aatagctcct 900
 ataagcattc tcagggcgta tgtcgggtgat cgagatttcc aagcaagctt ttagtggaaa 960
 tcacgcgcg caagccagcg gtaaaggga aagaacggag gacgattaca tacaagatga 1020
 acgaataaat aaattaataa taaataataa taaaaagtac agtagcatta aatattatta 1080
 agtttaatga ttaaaaattg gttaattgtc aagaaaatct aaggatttaa taaataaata 1140
 atactatgac aacttcgacg gaaagcatca gccccaatga aaattaatca gaattgaatc 1200

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tgagcgtatt tatttgataa cggtttacgt aactggtgga ataaaaatca actatcatct 1260
actaactagt gtttacgtta ctagtatatt atcatatacg gtgttagaag atgacgcaaa 1320
tgatgagaaa tagtcatcgt tttcaacgga agctgaaata caaggattga taatgtaata 1380
ggatcaatga atatcaacat ataaaacgat gataataata tttatagaat tgtgtagaat 1440
tgcagattcc cttttatgga ttcctaaatc ctcgagaaga acttctagta tatctacgta 1500
cctaataatta ttgccttatt aaaaatggaa tcccaacaat tatctcaaaa ttcccccaat 1560
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tttctaaacg taggacgtgc ggaatgacaa aaccatcagc agtgtcacga tctctccagt 1680
cacaatggca atcatgagtg catagtccaa agtaaagggg caaggaaaag catgattgaa 1740
aggactcccc atctggactc tatatgtcat cagcggctaa aaaaaagcat atagcacaac 1800
atcagcatca gcatcagcac tagagtcac ggcccgccgg tccgcgggtca tccccgcgga 1860
ctttccgtcc gcccgccggg ctgtatcagc gtcaactgga acgcgcatat atatacaaga 1920
cacacataac atagaagcac acccagcaca ataaccacac gacaataacc acaccgccc 1980
accctcctt tccgtatac 1999

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<210> 24
 <211> 91
 <212> DNA
 <213> Glycine max

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<400> 24
aaawtcaaac gacaataact tttkactcgg atgtccgatt gwggtcccgta rtatatcgag 60
acgctcgwaa ttgaaaacwg aagctctrag m 91

```

<210> 25
 <211> 92
 <212> DNA
 <213> Glycine max

```

<400> 25
aaattcaaact ggtcataact tttmacwcgg akgtccgatt caggcgcata atatatcgag 60
acgctcgaaa ttgaacaayg gaagctctcg ag 92

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<210> 26
 <211> 91
 <212> DNA
 <213> Glycine max

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<400> 26
aaattcaaac gacaataact ttttactcgg atgtcygatt gagtcccgta atatatcgag 60
acgctcgaaa ttgaatrytg aagctctgag c 91

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<210> 27

<211> 266
 <212> DNA
 <213> Brassica oleraceae

<220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (242)..(242)
 <223> n = a, c, g, or t

<400> 27
 gatttagatt gtactcattc caattaccag actcgaanag cccggtattg ttattttattg 60
 tcactacctc cccgtgtcag gattgggtaa tttgcgcgcc tgctgccttc cttggatgtg 120
 gtagccgttt ctacggctcc ctctccggaa tcgaacccta attctccgtc acccgttacc 180
 accatggtag gccactatcc taccatcgaa agttgatagg gcagaaattt gaatgatgcg 240
 tngccagcac taaggccatg cgatcg 266

<210> 28
 <211> 345
 <212> DNA
 <213> Brassica oleraceae

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n = a, c, g, or t

<400> 28
 aaactgggna aactggnaat cacctgnatt tgaaagtggg nataacttct tcatgccaac 60
 tcctatgagt tttattcaac ttctggtga ttctccacca ctttatgtat ccaaactcaag 120
 cttcttaciaa agtgattcat cctgggttga ttggaacgac gaacaagttg tgctattccc 180
 aaacttgga actggaatca cctgacttga aagtgggata acttcttcat cccaactcct 240
 atgagattta ttcaacttcc tgggtattct ccaccacttt atgtatccaa atcaagcttc 300

ttacaaagtg attcattctg gtttgtttgg aacgacgaag aagcg

345

<210> 29
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 29
ggtggtcggc cggagcacia gcgggccaag cccatgcttg

40

<210> 30
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 30
ggtggtcggc cgcaggttgc atatgaatct ttaactgaca g

41

<210> 31
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 31
ggtggtcggc cgcgagcaca agcgggcca gcccattgctt g

41

<210> 32
<211> 42
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 32
ggtggtcggc cgtcaggttg catatgaatc ttttaactgac ag

42

<210> 33
<211> 39
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 33
ggtggtcggc cgtcgtcggc acttggcagc gaaatctcc

39

<210> 34
<211> 42
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 34
ggtggtcggc cgcattatca tataattatg ttttgctgct tc

42

<210> 35
<211> 38
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 35
ggtggtcggc cgcgtcggca cttggcagcg aaatctcc

38

<210> 36
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<400> 36
ggtggtcggc cgattatcat ataattatgt tttgctgctt c

41

<210> 37
<211> 105
<212> DNA
<213> Lycopersicum

<220>
<221> misc_feature
<222> (18)..(18)
<223> n = a, c, g, or t

<220>
<221> misc_feature
<222> (29)..(29)
<223> n = a, c, g, or t

<400> 37
accaaatttg ttcgtggnac gtcctcaana cgttgtctat gcatacgggt ggccatcacg

60

gcctttccga cccatttgga aggtcaaacg aacccgaag tgagc

105

<210> 38
<211> 105
<212> DNA
<213> Lycopersicum

<220>
 <221> misc_feature
 <222> (40)..(40)
 <223> n = a, c, g, or t

<400> 38
 ggttttctag gccgtttggg aaggtcaaac gagccccggn acgagcatat gcctcatttt 60
 gacgattttc gtgtgctatt gcacaccatt ttttgggtga tcgag 105

<210> 39
 <211> 256
 <212> DNA
 <213> Lycopersicum

<400> 39
 gtaacgacct gtttagtcgt tttgagcagc agattttatt tctggaaaaa caggctgaga 60
 cgacggaaac cacgacggac cgtcatgggc acgacggacc gtcgaggggg tctcgttcca 120
 aaacacttag aattctgaaa tttgggtact gaaatcgact ctctgaactt cgtgaagaag 180
 tggcaggacg gaccgtcgtg ggcacgacgg accgtcacag gcccttcaat aatttcagtc 240
 tctgaactct gtgacg 256

<210> 40
 <211> 574
 <212> DNA
 <213> Plant Telomere probe

<400> 40
 aggcgcgcca cctgcaggag agctcggctc catcgagaca cagggttttag ggtttaggggt 60
 ttagggttta ggggtttagg tttagggttt aggggttttag gtttaggggt tagggtttag 120
 gggttaggggt ttagggttta ggggtttagg tttagggttt aggggttagg gtttaggggt 180
 tagggtttag gggttaggggt ttagggttta ggggtttagg tttagggttt aggggttagg 240
 gtttaggggt tagggtttag gggttaggggt ttagggttta ggggtttagg tttaggggtt 300
 aggggttagg gtttaggggt tagggtttag gggttaggggt ttagggttta ggggtttagg 360
 tttagggttt aggggttagg gtttaggggt tagggtttag gggttaggggt ttagggttta 420
 ggggttaggg tttagggttt aggggttagg gtttaggggt tagggtttag gggttaggggt 480
 ttagggttta ggggttaggg tttagggttt aggggttagg gtttaggggt tagggtttag 540
 gtgagcccgg gtttaaaccg ccgggccgtc gacc 574

<210> 41
 <211> 41
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 41
 aggcgcgcca cctgcaggag agctcgtct catcgagaca c 41

<210> 42
 <211> 34
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic primer

<400> 42
 ggtcgacggc ccgggcgttt aaacccgggc tcac 34

<210> 43
 <211> 155
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n = a, c, g, or t

<400> 43
 gttnttgtcg tttgaatttg ctgagnacct tcaacattca atttcgagcg tctcgatata 60
 ttacgggact taatcagaca atcgagtaaa aagttattgt cgtttgaatt tgctcagagc 120
 ttctgttttc aattacgagc gtctcgatat attac 155

<210> 44
 <211> 167
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature

<222> (39)..(39)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (65)..(65)
 <223> n = a, c, g, or t

<220>
 <221> misc_feature
 <222> (96)..(96)
 <223> n = a, c, g, or t

<400> 44
 gtccgnatca ggncgcataa tatatgcgag nacgctagna aattgaataa tggnaagcac 60
 tcganaaatt caaatgggtca taactttcca cacggnaggt tagattcaag cgcataatat 120
 atagagaagc tcgaaatata acaactaaag ctctcgcgaa attcaaa 167

<210> 45
 <211> 216
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (34)..(34)
 <223> n = a, c, g, or t

<400> 45
 ggcagagttt ttgggttttt catgttgtca aagnagttga acaatgaaaa tggatgacta 60
 gtgcctgatc gaattgatcg gatcatgtag gaacaagggt caagtctacc ggtctgtag 120
 gatgcctcag ctgcatacat cactgcactt ccacttgaca cctatcatta attagaaacg 180
 gctcgtctcg ccgtgacctt ctcttgaatt ctcaaa 216

<210> 46
 <211> 605
 <212> DNA
 <213> Glycine max

<220>
 <221> misc_feature
 <222> (368)..(368)
 <223> n = a, c, g, or t

<400> 46
 ggtgttgggc ctttaaaaat gatcctttta acttggtgaag aaaagctgag ataaaacttt 60
 caaatctttt ttttagtgatt ttttggtgga cgagcttgac ttggcgaatt gatttttagcc 120


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ttagtttcgc tttagttatt agtcaattca attaagaatg ataaatccca aagagaaaat 180
gtccgattga tttttgtgct tcattttact aaaagatatt cttttgatta ttatattatt 240
attttacctc tttttttgat ttccaacgtg gttacggcac gaccgagcgg ttggaactcc 300
ttttaacaga aattaatgaa tactacaatt caaatgatcg atggaaattt attttatttt 360
tagattangc gcgaaatgac ttaaataaat gactgaagca tgtcaaaagg gggatatggaa 420
agtaatgaaa ataagaataa aaatacatga aacacaatgt ggaccactac gggtagatag 480
aatgaatcga aaagcttggg tcgaggtact taccggttga agatcgaaga acgatgaaga 540
acgaatgaag aacgtcgaag aacgattgaa agctttgcga gattcctcac gggaaaacgt 600
tacgg 605

```

```

<210> 47
<211> 24
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic probe

```

```

<400> 47
tgaacggcca cgagttcgag atcg 24

```

```

<210> 48
<211> 24
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic probe

```

```

<400> 48
gtcctcggtg tgggaggtga tgtc 24

```

```

<210> 49
<211> 24
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic probe

```

```

<400> 49
ctgccactcc atttccttct cggc 24

```

```

<210> 50
<211> 24
<212> DNA
<213> Artificial sequence

```

```

<220>
<223> Synthetic probe

```

<400> 50
acttatccgg tcctagatca tcag

24

<210> 51
<211> 176
<212> DNA
<213> Brassica oleraceae

<400> 51
agcttgattt ggatacataa agtgggtggag aatcaccagg aagttgaata aatctcatag 60
gagttggcat gaagaagtta tcccmctttc aaatcagggtg attccagttt cccagtttgg 120
gaatagcaca gcttcttcgt cgttccaatc aaaccaggat gaatctcttt gtaaga 176

<210> 52
<211> 176
<212> DNA
<213> Brassica oleraceae

<400> 52
accttcattt ggatacataa agtagtgkag aatcaccagg aagttgaata aatctcatag 60
gagttaggat gaagaagtta tcccactttc aaataagggtg atcccagttt ycctgtttgg 120
gaatatgaca acttcttcgt cattctaatc aaaccaggat gaatckygat gtwaga 176